

CERTIFICATE OF MAILING

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Date of Deposit: November 15, 2001

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BOX PCT
Assistant Commissioner for Patents
Washington, D.C. 20231

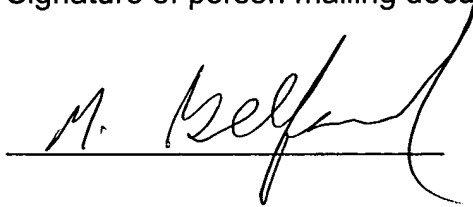
Case Number: P00,1822 01

International Application No. PCT/US01/08601

Michael TAYLOR et al.

"MOTOR MANAGEMENT PROGRAM"

Signature of person mailing documents and fee

A handwritten signature in cursive script, appearing to read "M. Belfer", is written over a horizontal line.

091980663

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
27 September 2001 (27.09.2001)

PCT

(10) International Publication Number
WO 01/71454 A3

- (51) International Patent Classification⁷: G06F 17/60 (74) Agent: ROBINSON, Melvin, A.; Patent Department, Schiff Hardin & Waite, 6600 Sears Tower, Chicago, IL 60606 (US).
- (21) International Application Number: PCT/US01/08601
- (22) International Filing Date: 15 March 2001 (15.03.2001) (81) Designated States (*national*): AU, BR, CA, CN, MX, US.
- (25) Filing Language: English (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).
- (26) Publication Language: English
- (30) Priority Data: 60/190,170 17 March 2000 (17.03.2000) US Published:
— with international search report
- (71) Applicant (*for all designated States except US*): SIEMENS AKTIENGESELLSCHAFT [DE/DE]; Wittelsbacherplatz 2, 80333 Muenchen (DE). (88) Date of publication of the international search report: 31 January 2002
- (72) Inventors; and (48) Date of publication of this corrected version: 25 April 2002
- (75) Inventors/Applicants (*for US only*): TAYLOR, Michael [CA/CA]; P.O. Box 18, Dorchester, Ontario NOL 1G0 (CA). STÜBIGER, Jürgen [DE/DE]; Peter-Vischer-Str. 6, 91056 Erlangen (DE). WILCOX, Michael [US/US]; 3928 Windgrove Crossing, Suwanee, GA 30024 (US). ZANCOLICH, Giuseppe [AU/US]; 11205 Amu Windham Ak Master Road, Alpharetta, GA 30005 (US). (15) Information about Correction: see PCT Gazette No. 17/2002 of 25 April 2002, Section II
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: METHOD OF PROVIDING OUTSOURCED MODULAR MOTOR MAINTENANCE SERVICES

BASIC MODULES				
ON-SITE MOTOR SERVICES <u>80</u>	SUPPORT SERVICES <u>82</u>	INVENTORY MANAGEMENT SERV. <u>84</u>	CONSULTING & ENGINEERING SERV. <u>86</u>	INFORMATION MANAGEMENT <u>88</u>
CONDITION MONITORING <u>90</u>	OVERHAUL, REPAIR & REWIND <u>98</u>	INVENTORY OPTIMIZATION & REDUCTION <u>106</u>	APPLICATION ENGINEERING <u>114</u>	SYSTEM DESIGN AND INTERFACE <u>122</u>
24 HR. EMERGENCY RESPONSE SERVICE <u>92</u>	MOTOR UPGRADE <u>100</u>	RELIABILITY VERIFICATION <u>108</u>	RELIABILITY IMPROVEMENT <u>116</u>	DATA MANAGEMENT <u>124</u>
PREVENTIVE & CORRECTIVE MAINTENANCE <u>96</u>	REPLACEMENT MOTOR SUPPLY <u>102</u>	STORAGE & MAINTENANCE <u>110</u>	MOTOR CONDITION ASSESSMENT <u>118</u>	
		SHARED INVENTORY <u>112</u>	MOTOR MGMT. REVIEW <u>120</u>	
PROGRAM MANAGEMENT				
HIGH END OPTIONS				
PERFORMANCE CONTRACTING <u>130</u>	CAPITAL IMPROVEMENT <u>132</u>	FULL COVERAGE <u>134</u>	ENERGY OPTIMIZATION <u>136</u>	

(57) Abstract: Motor services are offered to customers on an outsourced basis according to a menu of services available (see Figure 3). The services (80,82,84, 112,120) are modular and are selected based upon the customer's needs. The modular services are offered at two levels, a basic level (BASIC MODULES) and a high end level (HIGH END OPTIONS).



WO 01/71454 A3

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
MELVIN A. ROBINSON
PATENT DEPARTMENT
SCHIFF HARDIN & WAITE
6600 SEARS TOWER
CHICAGO, IL 60606

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference P00,1822	Date of Mailing (day/month/year) 05 NOV 2001
International application No. PCT/US01/08601	International filing date (day/month/year) 15 March 2001 (15.03.2001)
Applicant SIEMENS AKTIENGESELLSCHAFT	

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith.
Filing of amendments and statement under Article 19:
 The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompany sheet.

Where? Directly to the International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland
 Facsimile No.: (41-22) 740.14.35

 For more detailed instructions, see the notes on the accompanying sheet.
2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
 - ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
 - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. **Further action(s):** The applicant is reminded of the following:
 - Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.
 - Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).
 - Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230	Authorized officer Tariq Hafiz <i>James R. Matthews</i> Telephone No. 703.305.3900
--	--

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P00,1822	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US01/08601	International filing date (<i>day/month/year</i>) 15 March 2001 (15.03.2001)	(Earliest) Priority Date (<i>day/month/year</i>) 17 March 2000 (17.03.2000)
Applicant SIEMENS AKTIENGESELLSCHAFT		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

METHOD OF PROVIDING OUTSOURCED MODULAR MOTOR MAINTENANCE SERVICES

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. 3



as suggested by the applicant.



None of the figures



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/08601

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

Motor services are offered to customers on an outsourced basis according to a menu of services available (see Figure 3). The services (80,82,84,...,112,120) are modular and are selected based upon the customer's needs. The modular services are offered at two levels, a basic level (BASIC MODULES) and a high end level (HIGH END OPTIONS).

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/08601

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 17/60

US CL : 705/1,7,11

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 705/1,7,11;700/100

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST (US,Derwent), Corp Resource Net**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,463,555 A (WARD et al) 31 October 1995 (31.10.1995).	1-23
A	US 4,383,298 A (HUFF et al) 10 May 1983 (10.05.1983).	1-23
Y	Schimmoller, Brian K. Outsourcing plant maintenance. Power Engineering [online], 01-Feb-1998 [retrieved on 20-Sep-2001], Vol. 102 Issue 2. Retrieved from Corporate Resource Net Accession No. 309948, pp: 16.	1-23
Y	Finchem, Kirk J. Contract maintenance benefits hinge on management's focus. PLANT maintenance [online], 01-Jul-1997 [retrieved on 20-Sep-2001], Vol. 71 Issue 7. Retrieved from Corporate Resource Net Accession No. 9711290673, pp: 71.	1-23
T	Findlay Publications Ltd. Intensive care. Works Management [online], 01-Apr-2001 [retrieved on 20-Sep-2001], Vol. 54 Issue 4. Retrieved from Corporate Resource Net Accession No. 4506101, pp: 30.	1-23



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

20 September 2001 (20.09.2001)

Date of mailing of the international search report

05 NOV 2001

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks

Box PCT

Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

Tariq Hafiz

Telephone No. 703.305.3900

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/08601

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Caspersen, Bruce. Outsourcing maintenance: How it can improve the bottom line. Plant Engineering [online], 01-Dec-2000 [retrieved on 20-Sep-2001], Vol. 54 Issue 12. Retrieved from Corporate Resource Net Accession No. 3919031, pp: 26.	1-23

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

To:

MELVIN A. ROBINSON
PATENT DEPARTMENT
SCHIFF HARDIN & WAITE
6600 SEARS TOWER
CHICAGO IL 60606

NOTIFICATION CONCERNING PAYMENT OF PRESCRIBED FEES

(PCT Rules 14, 15 and 16 and Administrative
Instructions, Sections 304(a) and (b) and 323(b))

Date of mailing
(day/month/year)

11 MAY 2001

Applicant's or agent's file reference
P00.1822

PAYMENT DUE

See item 3 for time limits

International application No.

PCT/US01/08601

International filing date/Date of receipt
(day/month/year)

15 MAR 01

Priority date (day/month/year)

17 MAR 00

Applicant

SIEMENS AKTIENGESELLSCHAFT

1. The applicant is hereby notified that this receiving Office has received:



the payment of all the prescribed fees, and



an overpayment, which will be refunded in due course.



no or insufficient payment of the prescribed fees and the applicant is hereby invited to pay the balance due, as summarized under item 2, within the time limit(s) indicated under item 3.

2. Fees and payment calculation:

_____	-	_____	=	_____
Total fees payable		Amount paid		Balance



The details of the calculation are given in the Annex.

3. Time limit(s) for payment and amount(s) payable (Rules 14.1, 15.4 and 16.1(f)):



within ONE MONTH from the date of receipt of the international application (for the transmittal fee (if any), the search fee, the basic fee and the designation fee). The amount payable for each fee is the amount applicable on the date of receipt of the international application.



within ONE YEAR from the priority date (only for the designation fee and only if this time limit expires later than the above time limit).

—If the designation fee is paid within one month from the date of receipt of the international application, the amount payable is the amount applicable on that date of receipt.

—If the designation fee is paid within one year from the priority date but later than one month from the date of receipt of the international application, the amount payable is the amount applicable on the date of payment. The receiving Office should be consulted for the applicable amount.



within 16 MONTHS from the priority date (only for the fee for priority document). The applicant's attention is drawn to the fact that the request made by the applicant under Rule 17.1(b) will be considered not to have been made unless the fee is paid within that time limit.

4. Additional observations (if necessary):



The search copy will not be transmitted to the International Searching Authority until the search fee is paid (therefore the start of the international search will be delayed)(Rule 23.1(a) and (b)).

Name and mailing address of the receiving Office
Assistant Commissioner for Patents
Box PCT
Washington, D.C. 20231
Facsimile No.

Attn: RO/US

Authorized officer

AW

Catherine Williams
PCT Operations - IAPD Team 1
(703) 305-3677 (703) 305-3230 (FAX)

Telephone No.

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

NOTIFICATION OF THE INTERNATIONAL APPLICATION NUMBER AND OF THE INTERNATIONAL FILING DATE

(PCT Rule 20.5(c))

To:

MELVIN A. ROBINSON
PATENT DEPARTMENT
SCHIFF HARDIN & WAITE
6600 SEARS TOWER
CHICAGO IL 60606

Date of mailing
(day/month/year)

11 MAY 2001

Applicant's or agent's file reference

P00,1822

IMPORTANT NOTIFICATION

International application No.

PCT/US01/08601

International filing date (day/month/year)

15 MAR 01

Priority date (day/month/year)

17 MAR 00

Applicant

SIEMENS AKTIENGESELLSCHAFT

Title of the invention

MOTOR MANAGEMENT PROGRAM

1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above.

2. The applicant is further notified that the record copy of the international application:



was transmitted to the International Bureau on

11 MAY 2001



has not yet been transmitted to the International Bureau for the reason indicated below and a copy of this notification has been sent to the International Bureau**.



because the necessary national security clearance has not yet been obtained.



because (reason to be specified):

* The International Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c)).

3. FOREIGN TRANSMITTAL LICENSE INFORMATION

Completed by: 



Additional license for foreign transmittal not required. This subject matter is covered by a license already granted on the equivalent U.S. national application. Refer to that license for information concerning its scope.



License for foreign transmittal not required. 37 CFR 5.11(e)(1) or 37 CFR 5.11(e)(2). However, a license may be required for additional subject matter. See 37 CFR 5.15(b).



Foreign transmittal license granted. 35 U.S.C. 184; 37 CFR 5.11 on

(date)

March 26, 2001



37 CFR 5.15(a)



37 CFR 5.15(b)

Name and mailing address of the receiving Office

Assistant Commissioner for Patents
Box PCT
Washington, D.C. 20231

Attn: RO/US

Facsimile No.

Authorized officer

Catherine Williams

PCT Operations

(703) 305-3677

Room 1

(703) 305-3230

(FAX)

Telephone No.

Form PCT/RO/105 (July 1992)

Catherine Williams

PCT Operations - IAPD Team 1

(703) 305-3677 (703) 305-3230 (FAX)

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

To:

MELVIN A. ROBINSON
PATENT DEPARTMENT
SCHIFF HARDIN & WAITE
6600 SEARS TOWER
CHICAGO IL 60606

INVITATION TO CORRECT DEFECTS IN
THE INTERNATIONAL APPLICATION

(PCT Articles 3(4)(i) and 14(1) and Rule 26)

Date of mailing
(day/month/year)

11 MAY 2001

Applicant's or agent's file reference
P00.1822REPLY DUE within ONE MONTH from
the above date of mailingInternational application No.
PCT/US01/08601International filing date
(day/month/year) 15 MAR 01Applicant
SIEMENS AKTIENGESELLSCHAFT

1. ☒ The applicant is hereby invited, within the time limit indicated above, to correct, in the international application as filed, the defects specified on the attached

- ☒ Annex A
☐ Annex B1 (text matter of the international application as filed)
☐ Annex C1 (drawings of the international application as filed)

2. ☐ The applicant is hereby invited, within the time limit indicated above, to correct, in the translation of the international application furnished under Rule 12.3, the defects specified on the attached

- ☐ Annex A
☐ Annex B2 (text matter of the translation of the international application)
☐ Annex C2 (drawings of the translation of the international application)

Additional observations (if necessary):

HOW TO CORRECT THE DEFECTS?

Correction must be submitted by filing a replacement sheet embodying the correction and a letter accompanying the replacement sheet, which shall draw attention to the difference between the replaced sheet and the replacement sheet. A correction may be stated in a letter only if it is of such a nature that it can be transferred from the letter to the record copy without adversely affecting the clarity and direct reproducibility of the sheet onto which the correction is to be transferred (Rule 26.4).

ATTENTION

Failure to correct the defects will result in the international application being considered withdrawn by this receiving Office (see Rule 26.5 for further details).

A copy of this invitation and any attachments has been sent to the International Bureau

☒ and the International Searching Authority.

Name and mailing address of the receiving Office
Assistant Commissioner for Patents
Box PCT
Washington, D.C. 20231
Facsimile No.
Attn: RO/US

Authorized officer
Catherine Williams
PCT Operations - IAPD Team 1
Telephone No. (303) 305-3677 (703) 305-3230 (FAX)

The receiving Office has found the following defects in the international application as filed:

1. As to **signature*** of the international application (Rules 4.15 and 90.4), the request:
- a. ☐ is not signed.
 - b. ☐ is not signed by all applicants.
 - c. ☐ is not accompanied by the statement referred to in the check list in Box No. VIII of the request explaining the lack of the signature of an applicant for the designation of the United States of America.
 - d. ☒ is signed by what appears to be an agent/common representative but
 - ☒ the international application is not accompanied by a power of attorney appointing him.
 - ☐ the power of attorney accompanying the international application was not signed by all the applicants.
 - e. ☐ other (*specify*):

* All applicants must sign, including inventors if they are also applicants (e.g. where the United States of America is designated).

2. As to indications concerning the **applicant**, the request (Rules 4.4 and 4.5):

- a. ☐ does not properly indicate the applicant's name (*specify*):
- b. ☐ does not indicate the applicant's address.
- c. ☐ does not properly indicate the applicant's address (*specify*):
- d. ☐ does not indicate the applicant's nationality.
- e. ☐ does not indicate the applicant's residence.
- f. ☐ other (*specify*):

3. As to the **language** of certain elements of the international application, other than the description and claims (Rules 12.1(c) and 26.3ter(a) and (c)):

- a. ☐ the **request** is not in a language which is both a language accepted by this receiving Office and a language of publication, which is (are):
- b. ☐ the **text matter of the drawings** is not in the language in which the international application is to be published, which is:
- c. ☐ the **abstract** is not in the language in which the international application is to be published, which is:

4. **The title of the invention:**

- a. ☐ is not indicated in Box No. I of the request (Rule 4.1(a)).
- b. ☐ is not indicated at the top of the first sheet of the description (Rule 5.1(a)).
- c. ☐ as appearing in Box No. I of the request is not identical with the title heading the description (Rule 5.1(a)).

5. As to the **abstract** (Rule 8):

- ☐ the international application does not contain an abstract.

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

COMMUNICATION IN CASES FOR WHICH
NO OTHER FORM IS APPLICABLE

To: MELVIN A. ROBINSON PATENT DEPARTMENT SCHIFF HARDIN & WAITE 6600 SEARS TOWER CHICAGO, IL 60606		Date of mailing (day/month/year) 11 MAY 2001
Applicant's or agent's file reference P00,1822	REPLY DUE See paragraph 1 below	
International application No. PCT/US01/08601	International filing date (day/month/year) 15 MAR 01	
Applicant SIEMENS AKTIENGESELLSCHAFT		

1. ☒ **REPLY DUE** within 1 months/~~days~~ from the above date of mailing

☐ **NO REPLY DUE**, however, see below _____

☐ **IMPORTANT COMMUNICATION**

☐ **INFORMATION ONLY**

2. **COMMUNICATION:**
 TAYLOR, STUBIGER, WILCOX AND ZANCOLICH ARE INDICATED AS APPLICANT/INVENTORS FOR THE UNITED STATES OF AMERICA. THIS INDICATION IS A CLEAR INDICATION THAT APPLICANTS INTENDED TO DESIGNATE THE UNITED STATES OF AMERICA. HOWEVER, IN BOX V OF THE REQUEST APPLICANT FAILED TO CHECK THE BOX NEXT TO THE UNITED STATES OF AMERICA. CORRECTION IS REQUIRED. APPLICANT MAY CORRECT THE APPLICATION BY FILING A PETITION UNDER 37 CFR 1.182 REQUESTING THAT THE REQUEST BE CORRECTED.

Name and mailing address of the receiving Office Assistant Commissioner for Patent Box PCT Washington, D.C. 20231 Attn:RO/US Facsimile No. 703-305-3230	Authorized officer Catherine B. Williams <i>aw</i> Telephone No. 703-305-3677
---	---

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

NOTIFICATION REGARDING CERTAIN CORRECTIONS MADE *EX OFFICIO*

(PCT Administrative Instructions, Section 327)

To:

MELVIN A. ROBINSON
PATENT DEPARTMENT
SCHIFF HARDIN & WAITE
6600 SEARS TOWER
CHICAGO IL 60606

Date of mailing
(day/month/year)

11 MAY 2001

Applicant's or agent's file reference

P00.1822

REPLY DUE

NONE

However, see paragraph 3 below

International application No.

PCT/US01/08601

International filing date
(day/month/year)

15 MAR 01

Applicant

SIEMENS AKTIENGESELLSCHAFT

1. The applicant is hereby notified that this receiving Office has corrected formal defects in the international application *ex officio*, as shown on the attached copy of:



the request, sheet No.:

1, 2 & 4



the description, sheet No.:



the claims, sheet No.:



the drawings, sheet No.:



other (specify):

2. If the applicant agrees with these corrections, no further action is required in this regard.
3. **In case of disagreement** with these corrections, the applicant should promptly inform this receiving Office accordingly.

Name and mailing address of the receiving Office

Assistant Commissioner for Patents
Box PCT
Washington, D.C. 20231

Attn: RO/US

Facsimile No.

Authorized officer

Catherine Williams

PCT Operations - IAPD Team 1

(703) 305-3677 (703) 305-3230 (FAX)

Telephone No.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF RECEIPT
OF SEARCH COPY

(PCT Rule 25.1)

To:

MELVIN A. ROBINSON
PATENT DEPARTMENT
SCHIFF HARDIN & WAITE
6600 SEARS TOWER
CHICAGO IL 60606

Date of mailing
(day/month/year)

11 MAY 2001

Applicant's or agent's file reference

P00,1822

IMPORTANT NOTIFICATION

International application No.

PCT/US01/08601

International filing date (day/month/year)

15 MAR 01

Priority date (day/month/year)

17 MAR 00

Applicant

SIEMENS AKTIENGESELLSCHAFT

1. Where the International Searching Authority and the receiving Office are not the same Office:

The applicant is hereby notified that the search copy of the international application was received by this International Searching Authority on the date indicated below.

Where the International Searching Authority and the receiving Office are the same Office:

The applicant is hereby notified that the search copy of the international application was received on the date indicated below.

11 MAY 2001

(date of receipt)

2. Time limit for establishment of international search report

The applicant is informed that the time limit for establishing the international search report is 3 months from the date of receipt indicated above or 9 months from the priority date, whichever time limit expires later.

3. A copy of this notification has been sent to the International Bureau and, where the first sentence of paragraph 1 applies, to the receiving Office.

Name and mailing address of the ISA/US

Assistant Commissioner for Patents

Box PCT

Washington, D.C. 20231

Facsimile No.

Attn: ISA/US

Authorized officer

Catherine Williams

PCT Operations - IAPD Team 1

(703) 305-3677 (703) 305-3230 (FAX)

Telephone No.

Form PCT/ISA/202 (July 1992)

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

MELVIN A. ROBINSON
PATENT DEPARTMENT
SCHIFF HARDIN & WAITE
6600 SEARS TOWER
CHICAGO IL 60606

NOTIFICATION OF RECEIPT OF DEMAND BY COMPETENT INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

(PCT Rule 593(e) and 61.1(b), first sentence
and Administrative Instructions, Section 601(a))

Date of mailing
(day/month/year)

Applicant's or agent's file reference
P00,1822

IMPORTANT NOTIFICATION

International application No.
PCT/US01/08601

International filing date (day/month/year)
15 MAR 01

Priority date (day/month/year)
17 MAR 00

Applicant

SIEMENS AKTIENGESELLSCHAFT

1. The applicant is hereby **notified** that this International Preliminary Examining Authority considers the following date as the date of receipt of the demand for international preliminary examination of the international application:

2. That date of receipt is:

- ☐ the actual date of receipt of the demand by this Authority (Rule 61.1(b)).
- ☐ the actual date of receipt of the demand on behalf of this Authority (Rule 59.3(e)).
- ☐ the date on which this Authority has, in response to the invitation to correct defects in the demand (Form PCT/IPEA/404), received the required corrections.

3. ☐ **ATTENTION:** That date of receipt is **AFTER** the expiration of 19 months from the priority date. Consequently, the election(s) made in the demand does (do) not have the effect of postponing the entry into the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)). Therefore, the acts for entry into the national phase must be performed within 20 months from the priority date (or later in some Offices) (Article 22). For details, see the *PCT Applicant's Guide*, Volume II.

- ☐ (If applicable) This notification confirms the information given by telephone, facsimile transmission or in person on:

4. Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau.

Name and mailing address of the IPEA/US
Assistant Commissioner for Patents
Box PCT
Washington, D.C. 20231 Attn: IPEA/US
Facsimile No.

Authorized officer

Telephone No.

SEARCH COPY

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.	PCT/US 01/08601
International Filing Date	(15.03.01) 15 MAR 2001
Name of receiving Office and PCT International Application	PCT INTERNATIONAL APPLICATION RO/US
Applicant's or agent's file reference (if desired) (12 characters maximum)	P00,1822

Box No. I TITLE OF INVENTION	
MOTOR MANAGEMENT PROGRAM	
Box No. II APPLICANT	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	<input type="checkbox"/> This person is also inventor.
SIEMENS AKTIENGESELLSCHAFT Wittelsbacherplatz 2 80333 Muenchen, Germany	Telephone No. 0 89 636-00
	Facsimile No. 49 89 636 81857
	Teleprinter No.
State (that is, country) of nationality: Germany	State (that is, country) of residence: Germany
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is:
Michael TAYLOR ^A P.O. 18 Dorchester, Ontario NOL 1G0, Canada	<input type="checkbox"/> applicant only
	<input checked="" type="checkbox"/> applicant and inventor
	<input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)
State (that is, country) of nationality: Canada	State (that is, country) of residence: Canada
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	<input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No. 312/258-5785
Melvin A. ROBINSON ^A Patent Department Schiff Hardin & Waite 6600 Sears Tower Chicago, IL 60606 ^A US	Facsimile No. 312/258-5921
	Teleprinter No.
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

Form PCT/RO/101 (first sheet) (July 1998; reprint January 2001)

See Notes to the request form

A RO/US

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Jurgen STUBIGER^A
 Peter-Vischer-Str. 6
 91056 Erlangen, Germany

This person is:

- ☐ applicant only
☒ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:
 Germany

State (that is, country) of residence:
 Germany

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Michael WILCOX^A
 3928 Windgrove Crossing
 Suwanee, GA 30024 USA^A

This person is:

- ☐ applicant only
☒ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:
 USA^A

State (that is, country) of residence:
 USA^A

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Giuseppe ZANCOLICH^A
 11205 Amu Windham AK Master Road
 Alpharetta, GA 30005 USA^A

This person is:

- ☐ applicant only
☒ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:
 Australia

State (that is, country) of residence:
 USA^A

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only
☐ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on another continuation sheet.

Box No.V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

Regional Patent

- ☐ **AP ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☐ **EA Eurasian Patent:** AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP European Patent:** AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☐ **OA OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

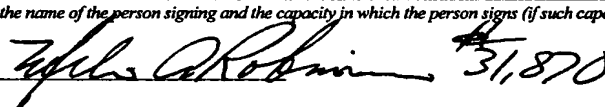
National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | |
|---|---|
| <input type="checkbox"/> AE United Arab Emirates | <input type="checkbox"/> LC Saint Lucia |
| <input type="checkbox"/> AG Antigua and Barbuda | <input type="checkbox"/> LK Sri Lanka |
| <input type="checkbox"/> AL Albania | <input type="checkbox"/> LR Liberia |
| <input type="checkbox"/> AM Armenia | <input type="checkbox"/> LS Lesotho |
| <input type="checkbox"/> AT Austria | <input type="checkbox"/> LT Lithuania |
| <input checked="" type="checkbox"/> AU Australia | <input type="checkbox"/> LU Luxembourg |
| <input type="checkbox"/> AZ Azerbaijan | <input type="checkbox"/> LV Latvia |
| <input type="checkbox"/> BA Bosnia and Herzegovina | <input type="checkbox"/> MA Morocco |
| <input type="checkbox"/> BB Barbados | <input type="checkbox"/> MD Republic of Moldova |
| <input type="checkbox"/> BG Bulgaria | <input type="checkbox"/> MG Madagascar |
| <input checked="" type="checkbox"/> BR Brazil | <input type="checkbox"/> MK The former Yugoslav Republic of Macedonia |
| <input type="checkbox"/> BY Belarus | <input type="checkbox"/> MN Mongolia |
| <input type="checkbox"/> BZ Belize | <input type="checkbox"/> MW Malawi |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> MX Mexico |
| <input type="checkbox"/> CH and LI Switzerland and Liechtenstein | <input type="checkbox"/> MZ Mozambique |
| <input checked="" type="checkbox"/> CN China | <input type="checkbox"/> NO Norway |
| <input type="checkbox"/> CR Costa Rica | <input type="checkbox"/> NZ New Zealand |
| <input type="checkbox"/> CU Cuba | <input type="checkbox"/> PL Poland |
| <input type="checkbox"/> CZ Czech Republic | <input type="checkbox"/> PT Portugal |
| <input type="checkbox"/> DE Germany | <input type="checkbox"/> RO Romania |
| <input type="checkbox"/> DK Denmark | <input type="checkbox"/> RU Russian Federation |
| <input type="checkbox"/> DM Dominica | <input type="checkbox"/> SD Sudan |
| <input type="checkbox"/> DZ Algeria | <input type="checkbox"/> SE Sweden |
| <input type="checkbox"/> EE Estonia | <input type="checkbox"/> SG Singapore |
| <input type="checkbox"/> ES Spain | <input type="checkbox"/> SI Slovenia |
| <input type="checkbox"/> FI Finland | <input type="checkbox"/> SK Slovakia |
| <input type="checkbox"/> GB United Kingdom | <input type="checkbox"/> SL Sierra Leone |
| <input type="checkbox"/> GD Grenada | <input type="checkbox"/> TJ Tajikistan |
| <input type="checkbox"/> GE Georgia | <input type="checkbox"/> TM Turkmenistan |
| <input type="checkbox"/> GH Ghana | <input type="checkbox"/> TR Turkey |
| <input type="checkbox"/> GM Gambia | <input type="checkbox"/> TT Trinidad and Tobago |
| <input type="checkbox"/> HR Croatia | <input type="checkbox"/> TZ United Republic of Tanzania |
| <input type="checkbox"/> HU Hungary | <input type="checkbox"/> UA Ukraine |
| <input type="checkbox"/> ID Indonesia | <input type="checkbox"/> UG Uganda |
| <input type="checkbox"/> IL Israel | <input type="checkbox"/> US United States of America |
| <input type="checkbox"/> IN India | <input type="checkbox"/> UZ Uzbekistan |
| <input type="checkbox"/> IS Iceland | <input type="checkbox"/> VN Viet Nam |
| <input type="checkbox"/> JP Japan | <input type="checkbox"/> YU Yugoslavia |
| <input type="checkbox"/> KE Kenya | <input type="checkbox"/> ZA South Africa |
| <input type="checkbox"/> KG Kyrgyzstan | <input type="checkbox"/> ZW Zimbabwe |
| <input type="checkbox"/> KP Democratic People's Republic of Korea | |
| <input type="checkbox"/> KR Republic of Korea | |
| <input type="checkbox"/> KZ Kazakhstan | |

Check-box reserved for designating States which have become party to the PCT after issuance of this sheet:

☐

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Box No. VI PRIORITY CLAIM		<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.		
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application:* regional Office	international application: receiving Office
item (1) 17 March 2000 (17.03.00)	60/190,170	USA/A		
item (2)				
item (3)				
<input checked="" type="checkbox"/> The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s): <small>* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.</small>				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
Choice of International Searching Authority (ISA) <small>(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):</small> ISA/ US		Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority): Date (day/month/year) Number Country (or regional Office)		
Box No. VIII CHECK LIST; LANGUAGE OF FILING				
This international application contains the following number of sheets: request : 4 description (excluding sequence listing part) : 18 claims : 4 abstract : 1 drawings : 5 sequence listing part of description : 0 Total number of sheets : 32		This international application is accompanied by the item(s) marked below: 1. <input checked="" type="checkbox"/> fee calculation sheet 2. <input type="checkbox"/> separate signed power of attorney 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: 4. <input type="checkbox"/> statement explaining lack of signature 5. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): 6. <input type="checkbox"/> translation of international application into (language): 7. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material 8. <input type="checkbox"/> nucleotide and/or amino acid sequence listing in computer readable form 9. <input type="checkbox"/> other (specify):		
Figure of the drawings which should accompany the abstract: 3		Language of filing of the international application: English		
Box No. IX SIGNATURE OF APPLICANT OR AGENT				
<small>Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).</small>				
Melvin A. Robinson Agent for Applicant		 31,870		

For receiving Office use only		(15.03.01)		
1. Date of actual receipt of the purported international application:	JC09 Rec'd PCT/PTO 15 MAR 2001		2. Drawings:	<input type="checkbox"/> received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:			<input type="checkbox"/> not received:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):				
5. International Searching Authority (if two or more are competent): ISA/US	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid.			

For International Bureau use only	
Date of receipt of the record copy by the International Bureau:	



03-16-01

PCT

This sheet is not part of and does not count as a sheet of the international application.

PCT
FEE CALCULATION SHEET
Annex to the Request

For receiving Office use only

International application No.

PCT/US 01/08601Applicant's or agent's
file reference P00,1822

Date stamp of the receiving Office

15 MAR 2001

Applicant

SIEMENS AKTIENGESELLSCHAFT

CALCULATION OF PRESCRIBED FEES1. TRANSMITTAL FEE \$240.00 ☐ T2. SEARCH FEE \$700.00 ☐ S

International search to be carried out by U.S. PTO

(If two or more International Searching Authorities are competent in relation to the international application, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FEE

Basic Fee

The international application contains 32 sheets.

first 30 sheets \$382.00 ☐ b12 x \$9.00 = 18.00 ☐ b2

remaining sheets additional amount

Add amounts entered at b1 and b2 and enter total at B \$400.00 ☐ B**Designation Fees**

The international application contains 7 designations.

6 x \$82.00 = \$492.00 ☐ D

number of designation fees amount of designation fee payable (maximum 6)

Add amounts entered at B and D and enter total at I \$892.00 ☐ I

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) 15.00 ☐ P

5. TOTAL FEES PAYABLE \$1847.00

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

TOTAL☐ The designation fees are not paid at this time.**MODE OF PAYMENT**☐ authorization to charge
deposit account (see below)☒ cheque☐ postal money order☐ bank draft☐ cash☐ revenue stamps☐ coupons☐ other (specify):**DEPOSIT ACCOUNT AUTHORIZATION** (this mode of payment may not be available at all receiving Offices)The RO/ US ☐ is hereby authorized to charge the total fees indicated above to my deposit account.☒ (this check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.☐ is hereby authorized to charge the fee for preparation and transmittal of the priority document to the International Bureau of WIPO to my deposit account.

501519

March 15, 2001

Deposit Account No.

Date (day/month/year)

Signature

240

700

382

18

400

492

892

15

1847